

L5 ANSWER 7 OF 97 CA COPYRIGHT 2001 ACS

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TI Manufacture of **calcium silicate** shaped articles for refractory, water-absorbing, and thermal **insulating** applications

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DT Patent

LA Korean

IC ICM C04B014-36

ICS C04B014-28

CC 58-6 (Cement, Concrete, and Related Building Materials)

Section cross-reference(s): 57

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PI	KR 9511940	B1	19951012	KR 1992-23237	19921204

AB The molded articles are manufd. by: (A) mixing **lime** and siliceous material like **diatomaceous earth** in a CaO/SiO₂ mole ratio of 0.8-1.8; (B) mixing above mixt. with water to obtain raw material slurry; (C) heating the slurry at 80-1000 and 1 atm into C-S-H gel slurry; (D) adding dild. water-glass to produce a mixed slurry contg. amorphous **calcium silicate**; (E) adding to the slurry reinforcing fibers 0.25-20 wt.%, followed by dewatering under pressure and molding; and (F) curing, aging, and drying successively

the molded product in a stack-type autoclave under the satd. steam pressure at 170-2500. The dild. water glass contains less than 10% of solid portion.

ST **calcium silicate** composite refractory thermal